Appendix H

APPENDIX H

METHOD 6 CHECKLIST TO BE USED BY AUDITORS

YES	NO	COMMENT	OPERATION
			PRESAMPLING PREPARATION
_____	_____	_____	1. Knowledge of process conditions
_____	_____	_____	2. Calibration of pertinent equipment, in particular, the dry gas meter and rotameter, prior to each field test.
			ON-SITE MEASUREMENTS
_____	_____	_____	3. Leak-testing of sampling train after sample run
_____	_____	_____	4. Preparation of absorbing solution and its addition to bubblers and impingers
_____	_____	_____	5. Constant sampling
_____	_____	_____	6. Purging of the sampling train and rinsing of the impingers and connecting tubes to recover the sample
_____	_____	_____	7. Recording of pertinent process condition during sample collection
_____	_____	_____	8. Maintaining the probe at a given temperature
			POST SAMPLING
_____	_____	_____	9. Control sample analysis – accuracy and precision
_____	_____	_____	10. Sample aliquotting techniques
_____	_____	_____	11. Titration technique, particularly endpoint precision
_____	_____	_____	12. Use of detection blanks in correcting field sample results
_____	_____	_____	13. Calculation procedure/check
_____	_____	_____	14. Calibration checks
_____	_____	_____	15. Standardized barium perchlorate solution

GENERAL COMMENTS

METHOD 5 CHECKLIST TO BE USED BY AUDITORS

YES	NO	OPERATION
		EQUIPMENT PREPARATION AND CHECK
_____	_____	1. Sampling train assembled and leak checked.
_____	_____	2. Probe and filter box heaters checked and set for proper temperatures.
_____	_____	3. Stack gas temperature measuring system assembled and checked for proper operation by comparing to a mercury in glass thermometer.
_____	_____	4. Stack gas velocity measuring system assembled and checked for proper operation.
_____	_____	5. Orsat analyzer assembled and checked.
		PRELIMINARY MEASUREMENTS
_____	_____	6. Selection of traverse points according to Method 1.
_____	_____	7. Moisture content by Method 4, or equivalent.
_____	_____	8. Molecular weight by Method 3, or equivalent.
_____	_____	9. Measurement of stack dimensions.
_____	_____	10. Mark probe for sampling at traverse points.
		SAMPLE COLLECTION
_____	_____	11. Equal sampling time at each traverse point.
_____	_____	12. Probe temperature satisfactory throughout the test.
_____	_____	13. Filter box temperature 120 $\pm$ 14°C (248 $\pm$ 25°F) through the test.
_____	_____	14. Sample gas temperature at last impinger $\approx$20°C (68°F) throughout the test.
_____	_____	15. Isokinetic sampling checked and adjusted if necessary at least every 5 minutes.
_____	_____	16. Leak check of sampling train at end of test.
		SAMPLE RECOVERY
_____	_____	17. Satisfactory handling and movement of probe and filter to sample recovery area.
_____	_____	18. Recovery area satisfactory (i.e., space, cleanliness, etc.)

METHOD 5 CHECKLIST TO BE USED BY AUDITORS
(continued)

YES	NO	OPERATION
_____	_____	19. Sample recovery procedure adequate.
_____	_____	20. Proper labeling of sample containers.
_____	_____	21. Determination of moisture content procedure adequate.
		ANALYSIS
_____	_____	22. Proper equilibration of (1) filter, (2) probe wash residue, and (3) acetone blank residue.
_____	_____	23. Correct collected particulates for acetone blank.
_____	_____	24. Analytical balance checked before weighings.
		DOCUMENTATION
_____	_____	25. All information recorded on data sheet as obtained.
_____	_____	26. All unusual conditions recorded.
COMMENTS		

METHOD 7 CHECKLIST TO BE USED BY AUDITORS

YES	NO	OPERATION
		PRESAMPLING PREPARATION 1. Information concerning combustion effluents which may act as interferents 2. Plant operation parameters variation 3. Calibration of the flask and valve volume three determinations 4. Absorbing reagent preparation ON-SITE MEASUREMENTS 5. Leak-testing and sampling train 6. Preparation and pipetting of absorbing solution into sampling flask POST SAMPLING (ANALYSIS AND CALCULATION) 7. Control sample analysis 8. Sample aliquotting technique 9. Evaporation and chemical treatment of sample 10. Spectrophotometric technique a. preparation of standard nitrate samples b. measurement of absorbance, including blanks c. calibration factor d. wavelength and absorbance, including blanks 11. Calculation procedure and checks a. use of computer program b. independent check of calculations
COMMENTS		

METHOD 8 CHECKLIST TO BE USED BY AUDITORS

YES	NO	COMMENT	OPERATION PRESAMPLING PREPARATION
_____	_____	_____	1. Knowledge of process conditions
_____	_____	_____	2. Calibration of pertinent equipment, in particular, the dry gas meter, prior to each field test.
			ON-SITE MEASUREMENTS
_____	_____	_____	3. Leak-testing of sampling train after sample run
_____	_____	_____	4. Preparation and addition of absorbing solutions to impingers
_____	_____	_____	5. Isokinetic sampling
_____	_____	_____	6. Purging of the sampling train and rinsing of the impingers and connecting tubes to recover the sample
_____	_____	_____	7. Recording of pertinent process condition during sample collection
_____	_____	_____	8. Maintaining the probe at a given temperature
			POST SAMPLING
_____	_____	_____	9. Control sample analysis – accuracy and precision
_____	_____	_____	10. Sample aliquotting techniques
_____	_____	_____	11. Titration technique, particularly endpoint precision
_____	_____	_____	12. Use of detection blanks in correcting field sample results
_____	_____	_____	13. Calculation procedure/check
_____	_____	_____	14. Calibration checks
_____	_____	_____	15. Standardized barium perchlorate solution

GENERAL COMMENTS